

Title (en)
Iron core of electromagnet and method of producing the same.

Title (de)
Eisenkern für Elektromagnet und Verfahren zur Herstellung.

Title (fr)
Noyau de fer pour électro-aimant et procédé pour fabriquer celui-ci.

Publication
EP 0251321 A1 19880107 (EN)

Application
EP 87109542 A 19870702

Priority
JP 15606486 A 19860704

Abstract (en)
The iron core (6,16) of an electromagnet comprises a stack of a plurality of steel sheets (1,21) stacked each other perpendicular to a horizontal axis (o-o'), and presents a sectional shape symmetrical with respect to the horizontal axis and is provided therein with a groove (5,25) of a specified shape. The iron core is produced by stacking and integrating a desired number of the steel sheets into a one-piece iron core and finally forming the specific shaped groove therein. Accordingly, no gaps are generated in the iron core and then the density thereof becomes high even in case of a sector iron core. Furthermore, the groove formation is conducted as a final step after the integration of the stacked steel sheets, the heat during welding operation for such integration has no bad effect on the groove in the iron core and then the problem of lack of magnetic force is solved.

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H01F 7/20

IPC 8 full level
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B82Y 15/00 (2013.01 - EP US); **H01F 3/02** (2013.01 - EP US); **H01F 41/0233** (2013.01 - EP US)

Citation (search report)

- DE 3238439 A1 19840419 - VACUUMSCHMELZE GMBH [DE]
- GB 1591162 A 19810617 - TELCON METALS LTD
- WO 8101218 A1 19810430 - TROLLE S

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EP 0251321 A1 19880107; **EP 0251321 B1 19930310**; DE 3784564 D1 19930415; DE 3784564 T2 19930812; JP H0378764 B2 19911216; JP S6313306 A 19880120; US 4887059 A 19891212

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